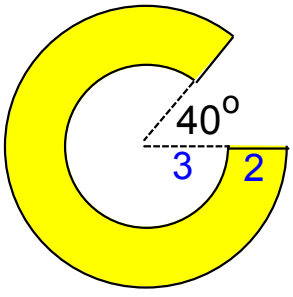
Precalc Warm Up # 8-1 Check out a grapher.

1. The second hand on a clock is 8 inches long. How fast in miles per hour is the tip of the second hand moving? Round answer to 3 d.p.

2. Find the exact area and perimeter of the figure shown.



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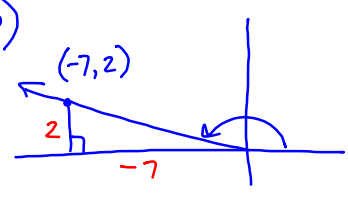
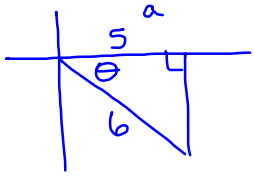
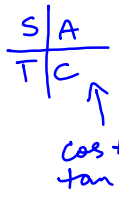
25)



29) $\sec\theta = \frac{6}{5}$ $\tan\theta < 0$

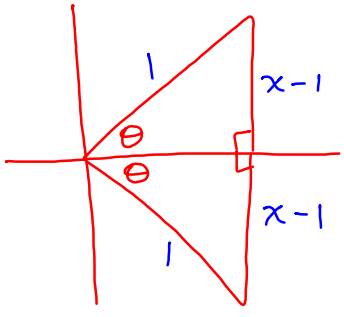




49) $\sec[\arcsin(x-1)]$

$-\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$

find adjacent side then find $\sec\theta \to \left(\frac{h}{a}\right)$



60) $h(t) = 3\csc\left(2t + \frac{\pi}{4}\right)$

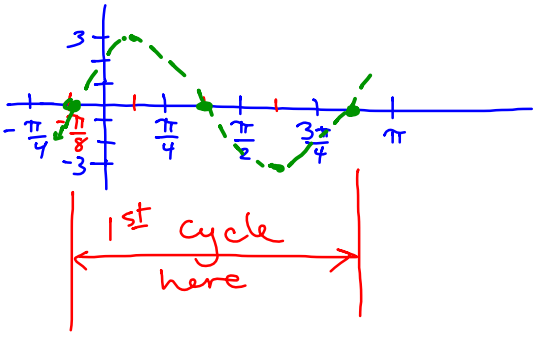
$2\left(t + \frac{\pi}{8}\right)$

Amp = 3

Per = π

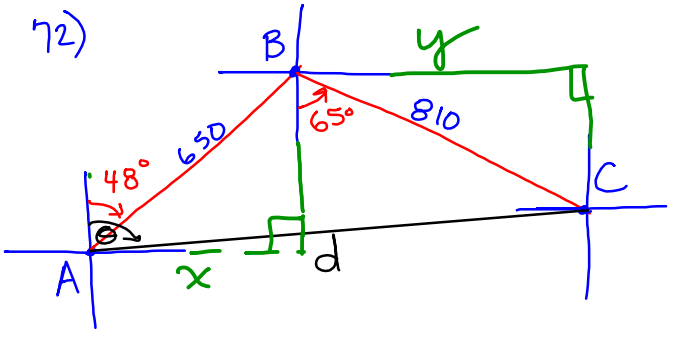
Left $\frac{\pi}{8}$

"ghost" sin



- Draw vertical asymptotes at the zeros of your "ghost"
- Repeat pattern for a 2nd cycle
- draw csc between your vertical asymptotes.

72)



NΘE

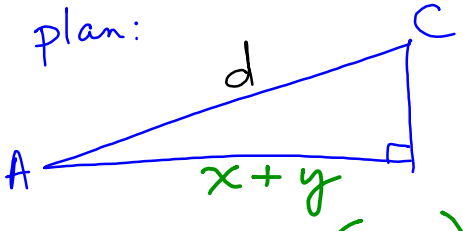
bearing from A to C

$\Theta = 90 - m\angle A$

N 85.6° E

$d \approx 1220.67$

plan:



$m\angle A = \cos^{-1}\left(\frac{x+y}{d}\right)$

HW: PC book, p. 403 # 5 -14

You don't need to use the fundamental identities to find the values. Just draw a picture in the correct quadrant!

Test tomorrow: PC 5, SL 9.1/9.7

HW Quiz Wed: (PC book) p. 380, 390, 394, rev. WS